



NESDIS Center for Satellite Applications and Research (STAR)

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for

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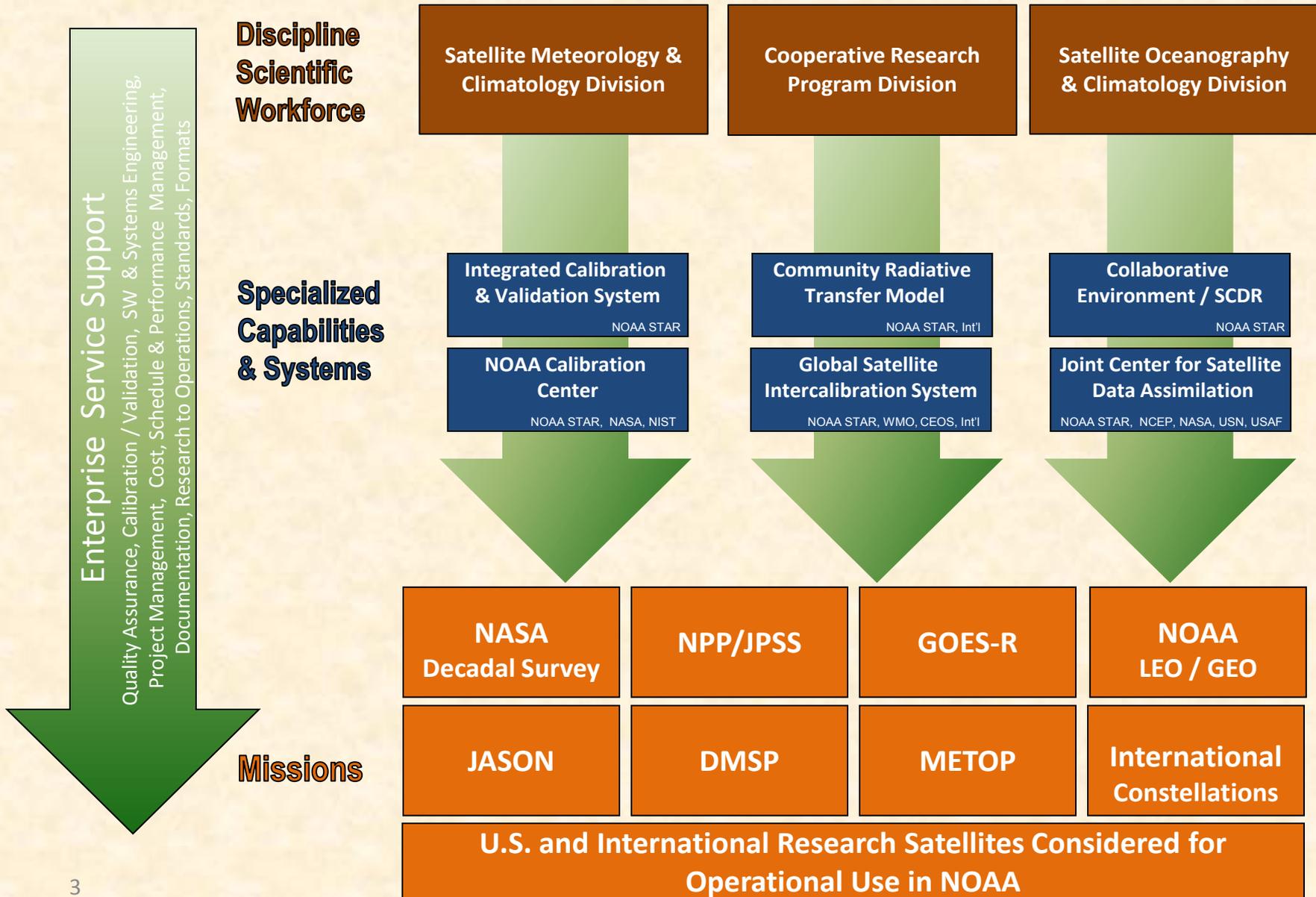


STAR Science Services



4.0	Science	4.3	Instrument & Product Calibration /Validation
4.1	Science & Product Systems Development	4.3.1	Development, coordination and execution of instrument and product Calibration / Validation techniques, technologies and activities;
4.1.1	Scientific algorithm & product systems development	4.3.2	Interagency and international cal / val program coordination activities
4.1.2	Calibration / validation systems development	4.3.3	Cal/Val campaigns
4.1.3	Software and Algorithm Integration		
4.1.4	Configuration control and change management	4.4	Science Project & Program Management
4.1.5	Quality Assurance	4.4.1	Program and Project level mission science leadership and coordination
		4.4.2	Science Team Management & Support
4.2	Science and Product Services	4.4.3	Organization and coordination of internal and / or external science community working groups, review boards, and advisory services
4.2.1	Requirements development and analysis	4.5	Post Launch Science Maintenance
4.2.2	Scientific algorithm & applications research, prototype development, testing, and validation	4.5.1	Science algorithm and instrument performance monitoring
4.2.3	Risk Reduction & Proving Grounds	4.5.2	Satellite / instrument performance issues mitigation services
4.2.4	User Readiness	4.5.3	Calibration updates and algorithm changes necessary to ensure product quality or correct for unanticipated anomalies or artifacts
4.2.5	Product Improvement	4.6	Long Term Monitoring
		4.6.1	Product Monitoring and long term error assessment
		4.6.2	Reprocessing of long term data to ensure highest quality

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Satellite Strategies in Transition



PRESENT



PAST	FUTURE
Calibrate individual instruments	Inter-calibrate multiple instruments globally
Stovepipe Development of algorithms for GEO & LEO instruments	Develop common algorithms and processing frameworks for GEO and LEO instruments
Develop individual products	Develop product suites and blended products
Transfer algorithms to NESDIS/OSPO	Transfer algorithms to NESDIS/OSPO & International and non-government partners
Address internal NOAA requirements	Participate in multiple US and international collaborations
Study climate using single instruments	Study climate using chains of instrument data
Assimilate data from individual satellites	Assimilate data from suites of satellites
Manage projects for Principal Investigators	Manage algorithm deliveries to entire acquisition programs